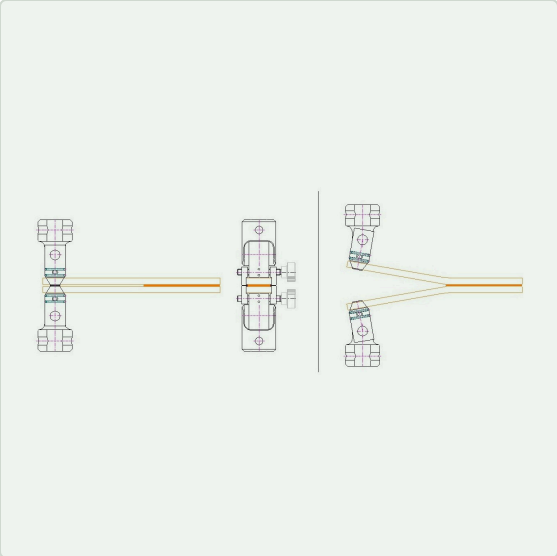
Cleavage Peel Fixture for Bonded Plastics

Built to ASTM D3807 — Standard Test Method for Strength Properties of Adhesives in Cleavage Peel by Tension Loading (Engineering Plastics-to-Engineering Plastics)



OVERVIEW

Cleavage peel fixture for adhesive-bonded engineering plastic specimens. The unbonded ends of the two adherends are clamped in opposing grips and pulled apart in tension, opening the bond progressively so the cleavage peel strength of the plastic-to-plastic joint can be measured.

KEY FEATURES

- Opposing grips hold the separated adherend ends in line
- Jaw faces sized to bonded plastic adherend thickness
- Self-aligning linkage keeps cleavage plane on load axis
- Firm clamping without crushing plastic adherends
- Supplied with adapters to suit your load frame (clevis or threaded)

TECHNICAL SPECIFICATIONS

Test method	Cleavage peel by tension loading
Test type / loading	Tension, cleavage peel of bonded plastics
Specimens	Bonded engineering plastic specimens per ASTM D3807
Load capacity	5 kN standard; higher capacities on request
Fixture material	Steel, corrosion-resistant finish
Gripping surfaces	Serrated jaw faces
Machine connection	Clevis pin or threaded adapter, to suit customer frame
Compatible frames	Electromechanical and servo-hydraulic universal test machines

APPLICATIONS

- Automotive plastic assemblies
- SMC and composite bonding
- Adhesive selection and comparison
- Bonding process QC

ABOUT THE STANDARD

ASTM D3807 determines the cleavage peel strength of adhesives used to bond engineering plastics to engineering plastics. Bonded specimens with unbonded ends are loaded in tension so the joint fails by cleavage peel. Results help compare adhesives, surface preparations and bonding processes for plastic assemblies such as automotive and appliance components.

Ordering & customization: Specify adherend thickness, specimen width, required capacity and test machine connection when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-D3807-PF